

Answer Key

Lesson 1.2

1. 43^4 2. 100^3 3. x^3 4. p^5 5. 64; 0.09
6. 512; 0.027 7. 4096; 0.0081
8. 262,144; 0.000729
9. 16,777,216; 0.00006561
10. 2,097,152; 0.0002187
11. 9 to the sixth power; $9 \cdot 9 \cdot 9 \cdot 9 \cdot 9 \cdot 9 = 531,441$
12. 16 to the fourth power; $16 \cdot 16 \cdot 16 \cdot 16 = 65,536$
13. 2.5 to the fourth power;
 $2.5 \cdot 2.5 \cdot 2.5 \cdot 2.5 = 39.0625$
14. 1.4 cubed; $1.4 \cdot 1.4 \cdot 1.4 = 2.744$
15. 0.262144 16. 0.4096 17. 0.64
18. 3375 19. 50,625 20. 759,375
21. 289 in.^2 22. 484 ft^2 23. 6.25 m^2
24. 0.36 cm^2 25. 0.729 yd^3 26. 2.197 ft^3
27. $27,000 \text{ cm}^3$ 28. 5832 mm^3
29. The number in the first row to the fourth power, n^4 , is equal to the number in the second row.